SYNTHESIS OF ESTERS DERIVED FROM [4-(2-HYDROXY-ETHYL)-[1,2,3]TRIAZOL-1-YL-2,3,4,6-TETRA-*O*-ACETYLGLUCOPYRANOSE

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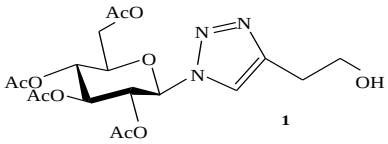
The biological activity of carbohydrates depends generally on their ability to bind to specific receptors namely those containing *O*-sulfate esters. These carbohydrate derivatives occur widely in nature and play an essential role in many biological processes.[1] Regiospecific synthesis of sugar esters is a difficult and challenging task. One approach described in the literature involves sugar derivatives soluble in organic media, namely the esterification of methyl glucosides.[2]

In this communication we discuss the synthesis of a set of esters **1** obtained from the D-glucose derivative **1** (R=H) by reaction with several carboxylic acid chlorides. The alcohol **1** (R=H) was prepared from α-acetobromoglucose, by exchange with sodium azide followed by reaction with propargyl alcohol under click-chemistry conditions. Details on the synthesis and characterization of the starting alcohol and the final compounds will be presented.



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